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CHRONOLOGY OF AIRFRAME PLANT ORDZHONIKIDZE 126, KOMSOMOLSK-NA-AMURE, USSR

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CHRONOLOGY OF AIRFRAME PLANT ORDZHONIKIDZE 126, KOMSOMOLSK-NA-AMURE, USSR

INTRODUCTION

This report is a study of the chronological development of Airframe Plant Ordzhonikidze 126 [redacted] 50-35N 137-05E), Komsomolsk-Na-Amure, USSR. The study is based on information compiled from all available photography of the plant [redacted]

Airframe Plant Ordzhonikidze 126 is located on the northeastern edge of Komsomolsk-Na-Amure (Figure 1). The plant consists of 2 areas -- a southeast area (Figures 2 and 3) and a northwest area (Figures 4 and 5). Both areas front on and have easy access to Komsomolsk Airfield [redacted] which serves as a test and flyaway field. In addition to the flyaway field, other transportation services consist of a network of rail spurs, good all-weather roads, and the nearby Amur River, a major navigable waterway.

Aircraft production was apparent in both plant areas on TALENT photography of March 1958, when they were initially observed. Since that date the southeast plant area has continued to produce large numbers of aircraft and is currently producing FITTER (SU-7). It is difficult to ascertain from photography what production activities, other than repair and maintenance of aircraft, the northwest plant area has been engaged in since March 1958. The northwest area probably provides some assistance to the southeast plant area in aircraft production; however, the northwest area could also be engaged in missile production, as indicated by the identification of probable missile airframes adjacent to a small secured probable check-out building (item 3, Figure 5) in this area. These probable missile airframes have been observed at this location in varying numbers since January 1965. An identification as to a specific missile or type of missile cannot be made from present photography.

A building-by-building construction history of each plant area is presented graphically in Figures 3 and 5 and in tabular form in Tables 1 and 2, which also provide interpretations of the basic functions of all the structures in the plant. All item numbers in the text are keyed to Figures 3 and 5 and Tables 1 and 2. Figure 6 shows an overall view of both plant areas and the flyaway field.

HIGHLIGHTS OF CHRONOLOGY

1958

Airframe Plant Ordzhonikidze 126 was first observed on TALENT photography of March 1958, at which time the southeast plant area contained approximately 912,525 square feet of roof cover and the northwest plant area contained approximately 902,750 square feet of roof cover, making a total of approximately 1,815,305 square feet. Major facilities in the southeast plant area in March 1958 consisted of a large assembly building, 13 shop buildings (including 2 shops/warehouses), a hangar, a large steamplant, 3 large warehouses, a large administration building, and a large POL area. The major facilities in the northwest plant area included 3 large assembly/shop buildings, 9 shop buildings, a transshipment building, a forge/foundry, a large steamplant, and an administration building. One of the large assembly/shop buildings (item 55, Figure 5) in the northwest plant area was in the process of being re-roofed.

1961

Plant 126 was not photographed during the period March 1958-August 1960. The first KEYHOLE photography, in August 1960, was of very poor interpretability and could not be used. The first usable KEYHOLE photography, obtained in June, was also of poor interpretability; however, 2 large new structures were observed for the first time. These were, in the southeast plant area, a transshipment building (item 5, Figure 3) with approximately 54,250 square feet of roof cover and, in the northwest plant area, a large assembly building (item 35, Figure 5) with approximately 254,400 square feet of roof cover. Since March 1958 the runway at the adjacent flyaway field had been extended 2,100 feet to the north.

1962

The interpretability of KEYHOLE photography obtained in June 1962 was greatly improved, and this coverage revealed in both plant areas some changes which were either new or could not be seen on earlier KEYHOLE missions. The changes in the southeast plant area included expansion of a shop building (item 34, Figure 3), a shop/warehouse building (item 70), and a steamplant (item 71) and the addition of an aircraft test revetment (item 1). A shop building (item 75) and a hangar (item 2) were observed in an early stage of construction. In the northwest plant area, expansion of a steamplant (item 13, Figure 5) and a forge/foundry (item 42) was observed for the first time. A small warehouse (item 51) was also newly observed. The roof cover of the expansions and new additions totaled approxi-

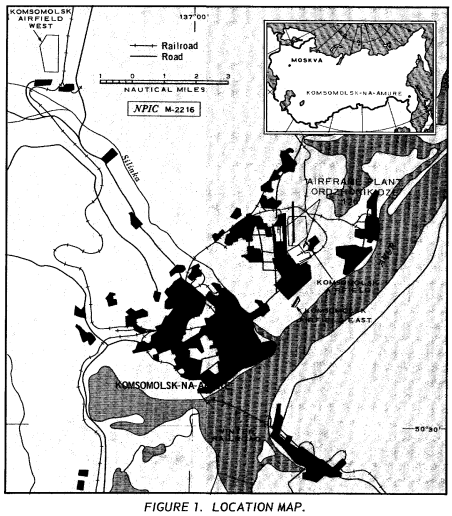

FIGURE 1. LOCATION MAP.

Table 1. Data on Southeast Plant Area of Airframe Plant Ordzhonikidze 126 (Item numbers are keyed to Figure 3)

Item No	Probable Function	Dimensions (ft)* L	W	Roof Cover (sq ft)	Date First	Comments
1	Aircraft test revetment	--	--	--		Used to measure and calibrate aircraft engines after installation in the aircraft. Can accommodate 2 aircraft simultaneously
2	Hangar	325 x	155	50,375		Completed [redacted] A final checkout hangar. Height 70 ft
3	Utility bldg	40 x	20	800		
4	Utility bldg	20 x	20	400		
5	Transshipment bldg	Irregular		77,350		A covered rail loading dock was added [redacted] [redacted] FITTER shipping crates in large numbers have been observed adjacent to this bldg
6	Hangar	Irregular		33,325		Repair hangar. Expanded between 1965 and 1967. Highest section 50 ft high
7	Control tower	40 x	25	1,000		Prob serves both plant areas and the flyaway field
8	Admin bldg	Irregular		750		
9	Admin bldg	Irregular		600		
10	Admin bldg	Irregular		750		
11	Admin bldg	Irregular		625		
12	Shop bldg	160 x	75	12,000		
13	Utility bldg	25 x	20	500		
14	Shop bldg	Irregular		20,275		Expanded between 1965 and 1967
15	Utility bldg	65 x	25	1,625		
16	Assembly/shop bldg	475 x	270	125,250		Completed [redacted] Highest section 50 ft high. Low section 30 ft high
17	Warehouse	80 x	20	1,600		
18	Warehouse	80 x	20	1,600		
19	Utility bldg	40 x	15	600		
20	POL area	--	--	--		Contains both aboveground and underground storage tanks
21	Utility bldg	60 x	20	1,200		
22	Warehouse	65 x	65	4,225		
23	Warehouse	80 x	40	3,200		
24	Warehouse	160 x	25	4,000		
25	Warehouse	565 x	70	39,550		
26	Utility bldg	65 x	30	1,950		
27	Warehouse	390 x	120	46,800		Completed [redacted]
28	Warehouse	335 x	105	35,175		
29	Warehouse	560 x	80	44,800		
30	Shop bldg	210 x	50	10,500		
31	Utility bldg	40 x	15	600		
32	Warehouse	180 x	40	7,200		
33	Shop bldg	Irregular		3,250		
34	Shop bldg	Irregular		145,875		Highest section 45 ft high. Bldg expanded [redacted]
35	Assembly bldg	Irregular		404,775		Contains a final assembly hall measuring aprx 425 x 140 x 60 ft high
36	Warehouse	235 x	40	9,400		
37	Warehouse	80 x	35	2,800		
38	Shop bldg	185 x	135	24,975		A carpenter shop for building shipping crates. Prob serves both plant areas
39	Warehouse	220 x	40	8,800		
40	Shop/warehouse	Irregular		15,000		
41	Warehouse	160 x	50	8,000		
42	Utility bldg	95 x	25	2,375		
43	Utility bldg	45 x	20	900		
44	Admin bldg	Irregular		3,300		Prob a motor pool dispatch office
45	Shop bldg	Irregular		20,050		Serves as vehicle repair and maintenance shop
46	Warehouse	210 x	20	4,200		
47	Warehouse	50 x	30	1,500		
48	Utility bldg	40 x	15	600		
49	Security bldg	110 x	30	3,300		
50	Utility bldg	20 x	20	400		
51	Admin bldg	Irregular		24,675		Main admin bldg
52	Utility bldg	20 x	15	300		
53	Utility bldg	30 x	20	600		
54	Utility bldg	20 x	15	300		
55	Shop bldg	Irregular		4,450		
56	Utility bldg	60 x	45	2,700		
57	Utility bldg	20 x	15	300		
58	Forge/foundry	205 x	120	24,600		
59	Utility bldg	30 x	15	450		
60	Utility bldg	135 x	30	4,050		
61	Shop bldg	Irregular		6,900		
62	Shop bldg	175 x	70	12,250		
63	Warehouse	120 x	25	3,000		
64	Warehouse	150 x	30	4,500		
65	Utility bldg	30 x	20	600		
66	Utility bldg	Irregular		975		
67	Warehouse	140 x	20	2,800		
68	Warehouse	165 x	55	9,075		
69	Utility bldg	30 x	15	450		
70	Shop/warehouse	665 x	80	53,200		Expanded [redacted] [redacted] Highest section 35 ft high
71	Steamplant	Irregular		22,075		Expanded [redacted]
72	Substation	--	--	--		
73	Utility bldg	80 x	20	1,600		
74	Security bldg	30 x	20	600		
75	Shop bldg	Irregular		23,975		Completed [redacted]
76	Shop bldg	Irregular		18,500		Expanded [redacted]
77	Concrete batch plant	Irregular		4,500		

*Lengths and widths are accurate to within ±5 ft or 5%, whichever is greater. Heights are accurate to within ±10 ft.

**Items were complete when first observed unless otherwise noted.

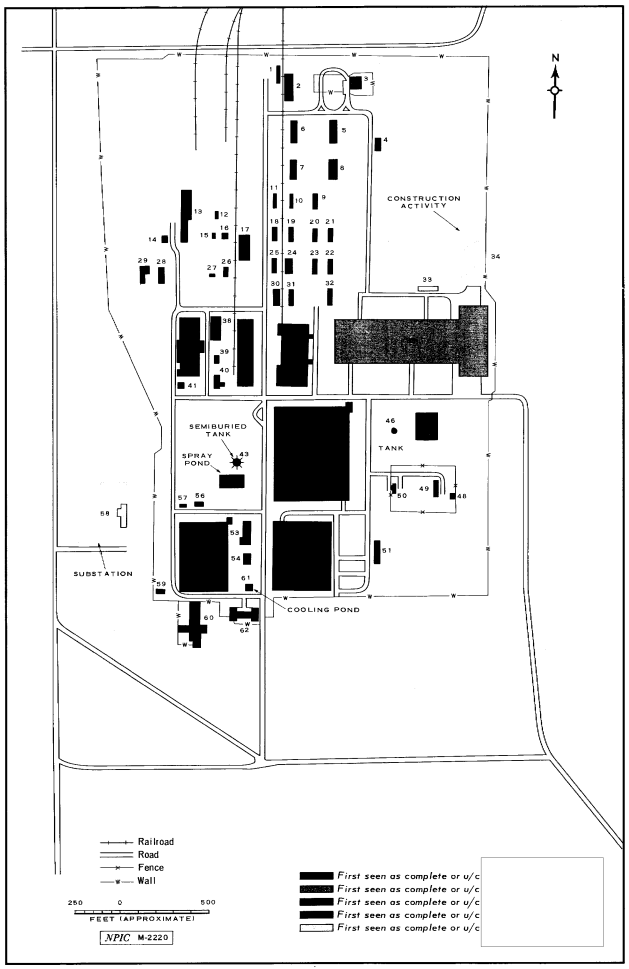

FIGURE 5. LAYOUT OF NORTHWEST PLANT AREA.

Table 2. Data on Northwest Plant Area of Airframe Plant Ordzhonikidze 126 (Item numbers are keyed to Figure 5)

Item No	Probable Function	Dimensions (ft)* L	W	Roof Cover (sq ft)	Date First Observed**	Comments
1	Warehouse	120	40	4,800		
2	Warehouse	160	55	8,800		
3	Checkout bldg	75	65	4,875		Completed [redacted] 25X1 Separately secured. Shipping crates and prob missile airframes have been observed adjacent to this bldg. Highest section 35 ft high
4	Utility bldg	30	15	450		
5	Warehouse	160	55	8,800		
6	Warehouse	160	55	8,800		
7	Warehouse	135	50	6,750		
8	Warehouse	160	55	8,800		
9	Warehouse	105	25	2,625		
10	Warehouse	105	25	2,625		
11	Warehouse	115	25	2,875		
12	Utility bldg	65	40	2,600		
13	Steamplant	Irregular		24,600		Expanded [redacted] 25X1 25X1
14	Utility bldg	45	40	1,800		
15	Utility bldg	40	40	1,600		
16	Utility bldg	45	40	1,800		
17	Shop bldg	175	60	10,500		
18	Warehouse	105	25	2,625		
19	Warehouse	105	25	2,625		
20	Warehouse	105	25	2,625		
21	Warehouse	105	25	2,625		
22	Warehouse	105	25	2,625		
23	Warehouse	105	25	2,625		
24	Warehouse	105	55	5,775		
25	Warehouse	105	25	2,625		
26	Utility bldg	60	40	2,400		
27	Utility bldg	45	25	1,125		
28	Utility bldg	95	30	2,850		
29	Shop bldg	Irregular		4,250		
30	Warehouse	105	55	5,775		
31	Warehouse	105	25	2,625		
32	Warehouse	105	25	2,625		
33	Warehouse	130	20	2,600		Completed [redacted] 25X1 Prob a temporary bldg for construction
34	Bldg u/c	--	--	--		Incomplete. Determination of size and configuration of this bldg cannot yet be made
35	Assembly bldg	Irregular		254,400		High bay section measures 455 x 115 x 65 ft high
36	Shop bldg	Irregular		70,100		
37	Transshipment bldg	435	100	43,500		
38	Shop bldg	135	65	8,775		
39	Utility bldg	35	30	1,050		
40	Shop bldg	Irregular		1,975		
41	Utility bldg	55	35	1,925		
42	Forge/foundry	Irregular		48,450		Expanded [redacted] 25X1 25X1
43	Semiburied tank	--	--	--		Completed [redacted] 25X1
44	Spray pond	--	--	--		Completed
45	Assembly/shop bldg	590	445	262,550		Serves the 2 shop bldgs (items 53 and 54) Has high bay measuring 535 x 105 x 55 ft high. Low section 45 ft high
46	Storage tank	--	--	--		
47	Shop bldg	165	145	23,925		
48	Utility bldg	50	20	1,000		
49	Shop bldg	110	35	3,850		
50	Utility bldg	50	20	1,000		
51	Warehouse	165	40	6,600		
52	Assembly/shop bldg	435	350	152,250		Has high bay measuring 160 x 80 x 55 ft high. Low section 35 ft high
53	Shop bldg	Irregular		10,050		
54	Shop bldg	80	65	5,200		
55	Assembly/shop bldg	Irregular		128,850		Has high bay measuring 445 x 60 x 40 ft high. Low section 35 ft high
56	Utility bldg	50	30	1,500		
57	Utility bldg	40	30	1,200		
58	Substation	--	--	--		Completed 25X1 25X1
59	Utility bldg	40	30	1,200		
60	Admin bldg	Irregular		15,375		
61	Cooling pond	--	--	--		
62	Security bldg	Irregular		5,200		Completed

*Lengths and widths are accurate to within ±5 ft or 5%, whichever is greater. Heights are accurate to within ±10 ft.
**Items were complete when first observed unless otherwise noted.

mately 170,175 square feet for the southeast plant area and approximately 36,475 square feet for the northwest plant area.

1963-1964

The continued construction of a shop building (item 75, Figure 3) and a hangar (item 2) in the southeast plant area was the only construction activity observed during 1963. These 2 structures were first seen under construction in June 1962 and were completed by February 1964. The transshipment building (item 5) in the southeast plant area was expanded between February and June 1964 by the addition of a covered rail loading dock, and footings for a new warehouse (item 27) were first evident in April 1964. A spray pond (item 44, Figure 5) and a small security building (item 62) were the only significant structures added in the northwest plant area during 1964. The total roof cover of structures completed during 1964 was approximately 97,450 square feet for the southeast plant area and approximately 5,200 square feet for the northwest plant area.

1965-1967

Significant construction occurring in the southeast plant area between January 1965 and November 1967 included the addition of a large assembly/shop building (item 16, Figure 3) between January 1965 and September 1966 and the expansion of 2 shop buildings (items 14 and 76) and a hangar (item 6). A large substation (item 58, Figure 5) and a small warehouse (item 33) were the only structures erected in the northwest plant area during 1965-1967. Footings for a very large building (item 34) were first observed in December 1966, but little progress has been made on the building since that date. Structures completed or expanded in the southeast plant area during 1965-1967 provided approximately 191,150 square feet of additional roof cover. The small warehouse added in the northwest plant area provided approximately 2,600 square feet of roof cover. As of November 1967 the southeast plant area contained approximately 1,418,550 square feet of roof cover, and the northwest plant area contained approximately 1,201,425 square feet of roof cover.

REFERENCES

25X1

MAPS OR CHARTS

ACIC series, scale 1:200,000

REQUIREMENT

CIA. C-DI5-82,973

NPIC PROJECT

11212CL/66